



Patent  
Attorney Docket No. 1030681-000600

ITW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Young-hoon SUNG et al.

Application No.: 10/727,530

Filing Date: December 5, 2003

Title: HUMAN DETECTION METHOD AND APPARATUS

Group Art Unit: 2623

Examiner: AMELIA MEGAN AU

Confirmation No.: 7324

**SECOND  
INFORMATION DISCLOSURE STATEMENT  
TRANSMITTAL LETTER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Enclosed is a SECOND Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.


- ☒ No additional fee for submission of an IDS is required.
- ☐ The fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ Charge \_\_\_\_\_ to Deposit Account No. 02-4800 for the fee due.
- ☐ A check in the amount of \_\_\_\_\_ is enclosed for the fee due.
- ☐ Charge \_\_\_\_\_ to credit card. Form PTO-2038 is attached.

The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BUCHANAN INGERSOLL PC

By

  
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Date: January 25, 2006

**Buchanan Ingersoll PC**  
ATTORNEYS

Including attorneys from Burns Doane Swecker & Mathis

(8/05)



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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|---------------------------------|---|---------------------------|
| In re Patent Application of     | ) |                           |
| Young-hoon SUNG et al.          | ) | Group Art Unit: 2623      |
| Application No.: Unassigned     | ) | Examiner: AMELIA MEGAN AU |
| Filed: December 5, 2003         | ) | Confirmation No.: 7324    |
| For: HUMAN DETECTION METHOD AND | ) |                           |
| APPARATUS                       | ) |                           |
|                                 | ) |                           |
|                                 | ) |                           |
|                                 | ) |                           |

**SECOND INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, the accompanying information is being submitted in accordance with 37 C.F.R. §§ 1.97 and 1.98.

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BUCHANAN INGERSOLL PC

Date January 25, 2006

By: 

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**FIRST INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 1

**Complete if Known**

Application Number 10/727,530  
 Filing Date December 5, 2003  
 First Named Inventor Young-hoon SUNG et al.  
 Examiner Name  
 Attorney Docket Number 1030681-000600

**U.S. PATENT DOCUMENTS**

| Examiner Initials | Document Number | Kind Code (if known) | Name of Patentee or Applicant of Cited Document | Issue/Publication Date (MM-DD-YYYY) |
|-------------------|-----------------|----------------------|---|-------------------------------------|
|                   | 5,164,992       | A                    | Turk et al.                                     | 11-17-1992                          |
|                   |                 |                      |   |                                     |
|                   |                 |                      |   |                                     |
|                   |                 |                      |   |                                     |
|                   |                 |                      |   |                                     |

**FOREIGN PATENT DOCUMENTS**

| Examiner Initials | Document Number | Kind Code (if known) | Country | Date of Publication (MM-DD-YYYY) | STATUS      |                     |                    |               |      |          |                        |
|-------------------|-----------------|----------------------|---------|----------------------------------|-------------|---------------------|--------------------|---------------|------|----------|------------------------|
|                   |                 |                      |         |                                  | Translation | Partial Translation | Eng. Lang. Summary | Search Report | IPER | Abstract | Cited in Specification |
|                   |                 |                      |         |                                  |             |                     |                    |               |      |          |                        |
|                   |                 |                      |         |                                  |             |                     |                    |               |      |          |                        |
|                   |                 |                      |         |                                  |             |                     |                    |               |      |          |                        |
|                   |                 |                      |         |                                  |             |                     |                    |               |      |          |                        |

**NON-PATENT LITERATURE DOCUMENTS**

| Examiner Initials | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.   |
|-------------------|---|
|                   | *SUNG UK LEE et al., "REAL-TIME FACIAL FEATURE DETECTION FOR PERSON IDENTIFICATION SYSTEM", IAPR Workshop on Machine Vision Application, November 2000, 4 pages, Tokyo, Japan XP-002340583 (cited in the European Search Report submitted herewith)   |
|                   | *BERND HEISELE et al., "FEATURE REDUCTION AND HIERARCHY OF CLASSIFIERS FOR FAST OBJECT DETECTION IN VIDEO IMAGES", Proceedings of the IEEE Computer Conference on Computer Vision and Pattern Recognition, December 8, 2001, pages II-18 to II-24, vol. 1 of 2, IEEE Comp. Soc. US, Los Alamitos, CA, XP-010584095 (cited in the European Search Report submitted herewith) |
|                   | *LEONARDO C. TOPA et al., "EDGE DETECTION AND THINNING IN TIME-VARYING IMAGE SEQUENCES USING SPATIO-TEMPORAL TEMPLATES", Pattern Recognition, 1989, pages 143-154, vol. 22, no. 2, Pergamo Press plc, Great Britain, XP-002340584 (cited in the European Search Report submitted herewith)  |
|                   | *N. BASSIOU et al., "FRONTAL FACE DETECTION USING SUPPORT VECTOR MACHINES AND BACK-PROPAGATION NEURAL NETWORKS", Proceedings 2001 International Conference on Image Processing, October 7-10, 2001, pages 1026-1029, vol. 1 of 3, Conf. 8, IEEE, U.S., XP-010565037 (cited in the European Search Report submitted herewith)  |
|                   | *European Search Report dated 08/31/2005.   |

Copy attached.

|                    |                 |
|--------------------|-----------------|
| Examiner Signature | Date Considered |
|--------------------|-----------------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.  
 Form Letters I